

SUBSTITUTE SPECIFICATION

ABSTRACT OF THE DISCLOSURE

In a method for calibrating an engraving amplifier in an electronic engraving machine, whereby a vibration signal is used to control the engraving of an engraving element by using engraving tone values representing desired tone values ranging from
5 “light” to “dark”, small cup shapes are engraved. The dimensions of the cup shapes define the real tone values. Transmission functions are initially determined, reproducing correlations between signal values that are adjusted in the engraving amplifier and the resulting changes in the real dimensions of the cup shapes. Sample cup shapes are engraved for predetermined desired tone values using the adjusted
10 signal values for at least one of the parameters such as “vibration”, “light”, “dark” or “mid tone”. Differential values are obtained from real measured dimensions and the predetermined desired dimensions of the sample cup shapes, taking into account the transmission functions, whereby the differential values are used to correct the adjusted signal values. Operations are repeated using the corrected signal values until the real
15 dimensions of the engraved cup shapes correspond to at least a permissible variation of the desired dimensions.